als represent like parts throughout the views. The present invention, designated by the reference numeral 10 comprises a kit for use in a dental operatory and is best shown in FIGS. 1 and 8. Referring specifically to FIG. 1, the kit 10 includes one or more syringes 20, each filled with a pre-selected fluid 48, one or more removable tips 50 and storage packaging 70 for the syringe(s) 20 and tip(s) 50. The syringe 20 and tip 50 components are preferably disposable. Each syringe 20 is pre-filled with either a carries detection fluid, sodium hypochlorite or a hemostatic agent 48.

[0020] As shown in FIGS. 4 through 7, each syringe includes a main body 22 defining an interior cavity 24 and an upper griping surface 26. The interior cavity includes two openings. A first opening 28 receives the plunger assembly 30 and the second opening 32 comprises the fluid outlet 34. The selected fluid 48 (see FIGS. 1 through 3) occupies the cavity 24. The plunger assembly 30 is positioned within the first opening 28 and includes an elongated member 36 having a first end 38 that sealingly engages with the interior cavity 24 and a second end 40 including a thumb pad 42 for application of pressure to the syringe 20.

[0021] The outlet 34 includes a separable connection mechanism 42 for receiving and attaching a disposable tip 50. In a preferred embodiment, a LUER® style locking configuration is used. As best shown in FIG. 7, the disposable tips 50 include an inlet end 52 and an outlet end 56. The inlet end 52 includes a separable connection mechanism 54 that mates with connection 42. The inlet end 52 couples to the syringe outlet 34 with, for example, the LUER® style locking configuration. The outlet end 56 may simply include an aperture 58 (see FIG. 4) for the fluid 48 to flow through or may include additional structure such as brush bristles 60 or fibers 62 as shown in FIGS. 6 and 5, respectively. The bristles 60 and fibers 62 can be of any pre-selected length and/or diameter and are adhered to the outlet end 56 of the tip 50 using conventional techniques. A tip 50 having a plurality of fibers 62 attached thereto is commonly known as a flocked applicator or flocked tip. A tip 50 having a plurality of bristles attached thereto is commonly known as a brush applicator or brush tip.

[0022] As shown in FIGS. 1 through 3 and 8, the package construction 70 includes a tray 72 having a number of cavities 74 for receiving and holding the syringes 20 and tips 50. Each of the plurality of syringes 20 is retained in a separate elongate cavity 76. Each syringe cavity 76 includes a gripping structure 78 for frictionally retaining each syringe. A larger cavity 80 is provided for the tips 50. In a preferred embodiment, an oval shaped cavity is provided for the tips. The tips 50 may be placed directly in the cavity 80 or the tips may be placed in a separate container 82 that is sized to be received within the larger cavity 80. In a preferred embodiment, the oval shaped cavity is dimensioned to receive two tip containers 82 spaced apart in a side-by-side relationship. A removable cover 84, secured by cover retention members 86 may be placed over the tray 72 before use or in between uses.

[0023] Each syringe 20 is pre-filled with one of three pre-selected fluids 48. Once filled, a plug 44 is attached to the syringe outlet 34 to seal the fluid within the interior cavity 24 and prevent contamination of the fluid 48. The first fluid is carries detection fluid, also called dentine carries dye. Carries detection fluid is useful for identification of

fissure carries, inner carious dentine in clinically accessible lesions and occlusal carious lesions. The fluid stains the denatured collagen in the inner part of the lesion thereby allowing the dentist to positively identify the lesion. Once the fluid is applied, the excess is rinsed away and the area is examined for residual staining which is an indication of the presence of dentine caries.

[0024] The second fluid is sodium hypochlorite. Sodium hypochlorite fluid is utilized in root canal treatment for its antimicrobial properties. In addition, sodium hypochlorite is known to denature toxins and dissolve organic tissue. Once the dentine has been exposed and the diseased tissue mechanically removed from the canal, a solution of sodium hypochlorite in the range of 0.5 to 7% is used to clean and flush the canal.

[0025] The third fluid includes hemostatic agents. Hemostatic agents are used primarily to control bleeding in the gingival surfaces of the mouth, namely the gums. Often during a dental procedure, the gingival surface must be cut or disrupted. A hemostatic agent such as VISCOSTAT®, ASTRINGEDENT® manufactured by Ultradent Products of South Jordan, Utah, and HEMODENT® manufactured by Stone Pharmaceuticals of Philadelphia, Pa. is applied to the affected area to substantially stop the bleeding.

[0026] In use, the dentist removes a syringe 20 containing the pre-selected fluid 48 from the storage packaging 70. The plug 44 is removed from the syringe outlet 34 and a tip 50 is connected. If necessary during the dental procedure, a first selected tip 50 can be removed and a different tip 50 can be replaced on the syringe 20. When the procedure is complete, the syringe 20, any remaining fluid 48, and any used tips 50 are preferably disposed. The remaining, unused components can be utilized in subsequent dental procedures.

[0027] The foregoing is considered as illustrative only of the principles of the invention. Furthermore, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described. While the preferred embodiment has been described, the details may be changed without departing from the invention, which is defined by the claims.

What is claimed is:

- 1. A package construction for a device for applying dental fluids comprising:
  - a plurality of syringes, each syringe having a fluid chamber and an outlet, said chamber containing a fluid selected from the group consisting of carries detection, sodium hypochlorite and hemostatic agent;
  - a plurality of disposable tips, each tip adapted to be attached to one of said syringes at said outlet;
  - a molded plastic tray, said tray having a plurality of receptacles formed therein for receiving and retaining said syringes and at least one receptacle formed therein for receiving said tips.
- 2. The package construction of claim 1 further including a cover, the cover being removably attached to the tray.
- 3. The package construction of claim 1 wherein each syringe further includes a plug, said plug being removably installed in each of said outlets.